

TABLE 69. Federally financed R&D expenditures at universities and colleges, by science and engineering field and federal agency: FY 2004
(Dollars in thousands)

Science and engineering field	Federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
All science and engineering	27,379,233	2,477,556	940,268	14,083,356	1,098,480	3,231,597	760,970	3,144,862
Computer sciences	1,027,929	303,041	32,200	26,747	38,738	410,783	2,091	119,049
Environmental sciences	1,595,993	140,036	68,469	30,618	231,900	520,558	44,435	474,230
Atmospheric sciences	322,355	20,360	14,345	1,213	101,991	79,923	1,511	80,226
Earth sciences	534,609	34,842	37,504	8,417	88,217	167,725	32,537	112,555
Oceanography	547,654	61,935	4,787	10,823	23,028	188,453	5,267	216,485
Environmental sciences, nec	191,375	14,783	11,142	9,445	15,822	30,209	5,120	44,212
Life sciences	16,413,267	402,982	143,878	12,578,943	108,263	508,430	631,346	1,346,985
Agricultural sciences	867,963	11,531	19,426	81,274	15,144	96,662	429,931	187,633
Biological sciences	5,503,954	120,562	66,014	4,246,985	44,855	347,397	160,612	308,040
Medical sciences	9,372,273	257,180	44,207	7,733,554	44,819	40,246	26,895	765,002
Life sciences, nec	669,077	12,356	14,231	472,535	3,144	21,967	13,908	86,143
Mathematical sciences	319,321	31,443	6,899	49,930	5,044	154,096	2,779	24,625
Physical sciences	2,566,825	307,474	364,673	430,869	336,554	720,443	7,299	207,657
Astronomy	289,176	13,877	6,088	118	123,888	53,505	0	17,707
Chemistry	919,489	93,902	60,966	384,971	25,129	246,271	4,872	72,049
Physics	1,169,239	168,158	277,637	27,653	133,356	371,824	2,090	105,056
Physical sciences, nec	188,921	30,777	17,989	16,515	53,469	46,591	337	12,841
Psychology	586,800	27,307	572	434,594	10,267	45,749	358	56,106
Social sciences	695,436	24,214	5,259	248,542	15,031	96,529	34,613	232,532
Economics	108,994	4,159	671	16,943	2,916	21,941	21,947	34,148
Political sciences	109,700	3,055	757	37,166	1,694	15,843	1,567	34,999
Sociology	181,784	2,979	742	103,690	721	24,299	5,185	40,126
Social sciences, nec	294,958	14,021	2,910	90,226	9,700	33,801	5,914	123,174
Sciences, nec	271,331	34,193	10,700	50,920	6,691	51,834	3,999	70,053
Engineering	3,902,331	1,204,933	305,535	224,959	345,877	720,131	33,920	612,980
Aeronautical/astronautical engineering	335,815	109,160	7,251	1,077	113,410	17,667	164	40,967
Bioengineering/biomedical engineering	235,954	25,040	3,056	108,861	5,531	27,801	4,662	33,212
Chemical engineering	267,553	43,197	52,581	26,971	14,994	76,148	3,969	35,494
Civil engineering	347,335	31,221	18,147	5,564	12,704	97,121	6,152	161,298
Electrical engineering	970,538	436,973	25,381	21,743	38,565	214,133	2,529	91,097
Mechanical engineering	582,222	185,698	86,979	16,579	42,467	78,086	1,214	76,945
Metallurgical/materials engineering	352,238	163,852	43,063	9,074	12,946	71,407	1,101	47,663
Engineering, nec	810,676	193,811	68,633	35,090	104,602	128,986	14,129	122,394

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = U.S. Department of Agriculture.
nec = not elsewhere classified.

^a Includes all reported agencies other than the six listed here.

NOTES: Agency detail may not add to total because some respondents reporting total federal agency data did not break out these data by field of science and engineering. Also, agency data may not add to total federal expenditures because some institutions did not break out their federal expenditures by federal agency.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.